

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits  | Search Query   | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|-------|--|--|------------------|---------|---------------------|
| S1    | 1     | "10573331"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/06/11<br>15:20 |
| S2    | 649   | 310/363,364.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/06/11<br>15:33 |
| S3    | 1910  | 310/365,366.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/06/11<br>17:06 |
| S4    | 33761 | Ag with Pd   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/06/11<br>18:38 |
| S5    | 17    | (US-20070273251-\$ or<br>US-20070205700-\$ or<br>US-20020158552-\$ or<br>US-20020089266-\$ or<br>US-20020053860-\$ or<br>US-20020043901-\$ or<br>US-20010026114-\$).did.<br>or (US-6798123-\$ or US-<br>6731050-\$ or US-<br>6522052-\$ or US-<br>6208026-\$ or US-<br>5459371-\$ or US-<br>4845399-\$ or US-<br>7345403-\$ or US-<br>6765337-\$ or US-<br>6414417-\$ or US-<br>5254212-\$).did. | US-PGPUB;<br>USPAT   | OR               | ON      | 2008/06/11<br>18:38 |
| S6    | 5     | S4 and S5  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/06/11<br>18:38 |

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| S7  | 149    | (S2 S3) and S4                               | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/11<br>18:50 |
| S8  | 37739  | (ag silver) with glass                       | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/11<br>18:57 |
| S9  | 45     | (S2 S3) and S8                               | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/11<br>18:57 |
| S10 | 447    | diffus\$3 with piezo\$<br>with electrode     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>07:56 |
| S11 | 22933  | electrode with (inorganic<br>perovskite pzt) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>08:05 |
| S12 | 650    | 310/363,364.ccls.                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>08:05 |
| S13 | 1911   | 310/365,366.ccls.                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>08:05 |
| S14 | 227    | (S12 S13) and S11                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>08:05 |
| S15 | 11891  | electrode with (particle<br>grain) with size | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>09:11 |
| S16 | 297244 | piezo\$                                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>09:11 |

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| S17 | 565   | S15 and S16  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>09:11 |
| S18 | 33798 | Ag with Pd   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>09:11 |
| S19 | 101   | S17 and S18  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>09:11 |
| S20 | 491   | (ag silver) with glass<br>with external  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>10:02 |
| S21 | 52    | S16 and S20  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>10:02 |
| S22 | 5672  | (ag silver) with glass<br>with electrode   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>10:32 |
| S23 | 373   | S16 and S22  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>10:32 |
| S24 | 31    | (US-20070273251-\$ or<br>US-20070205700-\$ or<br>US-20020158552-\$ or<br>US-20020089266-\$ or<br>US-20020053860-\$ or<br>US-20020043901-\$ or<br>US-20010026114-\$ or<br>US-20020017832-\$ or<br>US-20020084723-\$ or<br>US-20040021399-\$ or<br>US-20040178703-\$ or<br>US-20030141786-\$ or<br>US-20040050477-\$ or<br>US-20030080651-\$ or<br>US-20010043454-\$ or<br>US-20030230374-\$ or<br>US-20020046861-\$ or<br>US-20060232172-\$ or<br>US-20020084872-\$).did. | US-PGPUB;<br>USPAT   | OR | ON | 2008/06/12<br>10:53 |

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|     |        | or (US-6798123-\$ or US-6731050-\$ or US-6522052-\$ or US-6208026-\$ or US-5459371-\$ or US-4845399-\$ or US-7345403-\$ or US-6765337-\$ or US-6414417-\$ or US-5254212-\$ or US-6756720-\$ or US-6734607-\$).did. |  |    |    |                     |
| S25 | 11     | S24 and (porous mesh)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>10:53 |
| S26 | 16571  | porous with ratio  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>10:55 |
| S27 | 3      | (S12 S13) and S26  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>10:56 |
| S28 | 177875 | porosity   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>10:56 |
| S29 | 24     | (S12 S13) and S28  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>10:56 |
| S30 | 35479  | glass with amorphous   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>10:59 |
| S31 | 2      | S24 and S30  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>11:00 |
| S32 | 11     | (S12 S13) and S30  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>11:00 |

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| S33 | 29833 | (ag silver) with<br>(proportion<br>concentration)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>11:38 |
| S34 | 632   | S16 and S33   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>11:38 |
| S35 | 2425  | (internal external) with<br>electrode with<br>(proportion<br>concentration)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>15:34 |
| S36 | 155   | S16 and S35   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>15:35 |
| S37 | 8155  | (variable varying chang<br>\$3 gradient) with<br>electrode with<br>(proportion<br>concentration)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>16:26 |
| S38 | 511   | S16 and S37   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>16:26 |
| S39 | 35    | (US-20070273251-\$ or<br>US-20070205700-\$ or<br>US-20020158552-\$ or<br>US-20020089266-\$ or<br>US-20020053860-\$ or<br>US-20020043901-\$ or<br>US-20010026114-\$ or<br>US-20020017832-\$ or<br>US-20020084723-\$ or<br>US-20040021399-\$ or<br>US-20040178703-\$ or<br>US-20030141786-\$ or<br>US-20040050477-\$ or<br>US-20030080651-\$ or<br>US-20010043454-\$ or<br>US-20030230374-\$ or<br>US-20020046861-\$ or<br>US-20060232172-\$ or<br>US-20020084872-\$ or<br>US-20010054859-\$).did.<br>or (US-6798123-\$ or US-<br>6731050-\$ or US-<br>6522052-\$ or US-<br>6208026-\$ or US- | US-PGPUB;<br>USPAT   | OR | ON | 2008/06/12<br>17:07 |

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|     |        | 5459371-\$ or US-<br>4845399-\$ or US-<br>7345403-\$ or US-<br>6765337-\$ or US-<br>6414417-\$ or US-<br>5254212-\$ or US-<br>6756720-\$ or US-<br>6734607-\$ or US-<br>7009328-\$ or US-<br>6943482-\$ or US-<br>6700306-\$).did. |   |    |    |                     |
| S40 | 20     | S39 and glass  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2008/06/12<br>17:07 |
| S41 | 12     | S39 and diffus\$3  | US-PGPUB;<br>USPAT  | OR | ON | 2008/06/12<br>17:27 |
| S42 | 203    | diffus\$3 with electrode<br>with internal with<br>external   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>17:34 |
| S43 | 18     | S16 and S42  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>17:34 |
| S44 | 5000   | internal with electrode<br>with (void space porous)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>17:34 |
| S45 | 286    | S16 and S44  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>17:35 |
| S46 | 158416 | electrode with (void<br>space porous)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>17:47 |

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| S47 | 336 | (S12 S13) and S46  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/12<br>17:48 |
| S48 | 16  | ("6381118" "6700311"<br>"6734607" "688290"<br>"4977485"<br>"20010054859"<br>"20020150508"<br>"20030080651").pn.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2008/06/12<br>18:37 |
| S49 | 36  | (US-20070273251-\$ or<br>US-20070205700-\$ or<br>US-20020158552-\$ or<br>US-20020089266-\$ or<br>US-20020053860-\$ or<br>US-20020043901-\$ or<br>US-20010026114-\$ or<br>US-20020017832-\$ or<br>US-20020084723-\$ or<br>US-20040021399-\$ or<br>US-20040178703-\$ or<br>US-20030141786-\$ or<br>US-20040050477-\$ or<br>US-20030080651-\$ or<br>US-20010043454-\$ or<br>US-20030230374-\$ or<br>US-20020046861-\$ or<br>US-20060232172-\$ or<br>US-20020084872-\$ or<br>US-20010054859-\$).did.<br>or (US-6798123-\$ or US-<br>6731050-\$ or US-<br>6522052-\$ or US-<br>6208026-\$ or US-<br>5459371-\$ or US-<br>4845399-\$ or US-<br>7345403-\$ or US-<br>6765337-\$ or US-<br>6414417-\$ or US-<br>5254212-\$ or US-<br>6756720-\$ or US-<br>6734607-\$ or US-<br>7009328-\$ or US-<br>6943482-\$ or US-<br>6700306-\$).did. or (JP-<br>2004103621-\$).did. | US-PGPUB;<br>USPAT; JPO   | OR | ON | 2008/06/13<br>08:18 |
| S50 | 9   | S49 and (polyimide with<br>resin)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2008/06/13<br>08:19 |

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| S51 | 7     | S49 and (silver with resin)               | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2008/06/13<br>08:21 |
| S52 | 78653 | (copper cu) with (pd palladium)           | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2008/06/13<br>09:25 |
| S53 | 14    | S49 and S52                               | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2008/06/13<br>09:25 |
| S54 | 22933 | electrode with (inorganic perovskite pzt) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2008/06/13<br>09:46 |
| S55 | 16    | S49 and S54                               | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2008/06/13<br>09:46 |
| S56 | 21    | S49 and glass                             | US-PGPUB;<br>USPAT; JPO   | OR | ON | 2008/06/13<br>10:21 |
| S57 | 35869 | glass with soft\$                         | US-PGPUB;<br>USPAT; JPO   | OR | ON | 2008/06/13<br>10:30 |
| S58 | 4     | S49 and S57                               | US-PGPUB;<br>USPAT; JPO   | OR | ON | 2008/06/13<br>10:30 |
| S59 | 124   | h01l41/047.ipc.                           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/13<br>11:55 |
| S60 | 5     | S49 and young                             | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2008/06/13<br>13:11 |
| S61 | 700   | 310/363,364.ccls.                         | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>08:30 |
| S62 | 1989  | 310/365,366.ccls.                         | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>08:30 |



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| S63 | 36481 | Ag with Pd                                   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:30 |
| S64 | 166   | (S61 S62) and S63                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:30 |
| S65 | 39796 | (ag silver) with glass                       | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:30 |
| S66 | 52    | (S61 S62) and S65                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:30 |
| S67 | 495   | diffus\$3 with piezo\$<br>with electrode     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:30 |
| S68 | 24972 | electrode with (inorganic<br>perovskite pzt) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:30 |
| S69 | 700   | 310/363,364.ccls.                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:30 |
| S70 | 1989  | 310/365,366.ccls.                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:30 |
| S71 | 252   | (S69 S70) and S68                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:30 |
| S72 | 12593 | electrode with (particle<br>grain) with size | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:30 |

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| S73 | 315733 | piezo\$                                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:30 |
| S74 | 624    | S72 and S73                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:30 |
| S75 | 36481  | Ag with Pd                               | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:30 |
| S76 | 106    | S74 and S75                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:30 |
| S77 | 522    | (ag silver) with glass<br>with external  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:31 |
| S78 | 59     | S73 and S77                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:31 |
| S79 | 6046   | (ag silver) with glass<br>with electrode | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:31 |
| S80 | 403    | S73 and S79                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:31 |
| S81 | 186631 | porosity                                 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:31 |
| S82 | 28     | (S69 S70) and S81                        | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:31 |

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| S83 | 37895 | glass with amorphous   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>08:31 |
| S84 | 15    | (S69 S70) and S83  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>08:31 |
| S85 | 30930 | (ag silver) with<br>(proportion<br>concentration)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>08:31 |
| S86 | 688   | S73 and S85  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>08:31 |
| S87 | 2557  | (internal external) with<br>electrode with<br>(proportion<br>concentration)                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>08:31 |
| S88 | 172   | S73 and S87  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>08:31 |
| S89 | 8628  | (variable varying chang<br>\$3 gradient) with<br>electrode with<br>(proportion<br>concentration) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>08:31 |
| S90 | 579   | S73 and S89  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>08:31 |
| S91 | 222   | diffus\$3 with electrode<br>with internal with<br>external                                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:32 |
| S92 | 24    | S73 and S91  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:32 |

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|-----|-------|--|---|----|----|---------------------|
| S93 | 5284  | internal with electrode with (void space porous)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:32 |
| S94 | 311   | S73 and S93  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:32 |
| S95 | 32    | (US-20070273251-\$ or<br>US-20070205700-\$ or<br>US-20020158552-\$ or<br>US-20020089266-\$ or<br>US-20020053860-\$ or<br>US-20020043901-\$ or<br>US-20010026114-\$ or<br>US-20020017832-\$ or<br>US-20020084723-\$ or<br>US-20040021399-\$ or<br>US-20040178703-\$ or<br>US-20030141786-\$ or<br>US-20040050477-\$ or<br>US-20030080651-\$ or<br>US-20010043454-\$ or<br>US-20030230374-\$ or<br>US-20020046861-\$ or<br>US-20060232172-\$ or<br>US-20020084872-\$ or<br>US-20010054859-\$).did.<br>or (US-6798123-\$ or US-<br>6731050-\$ or US-<br>6522052-\$ or US-<br>6208026-\$ or US-<br>5459371-\$ or US-<br>4845399-\$ or US-<br>7345403-\$ or US-<br>6765337-\$ or US-<br>6414417-\$ or US-<br>5254212-\$ or US-<br>6756720-\$ or US-<br>6734607-\$ or US-<br>7009328-\$ or US-<br>6943482-\$ or US-<br>6700306-\$).did. or (JP-<br>2004103621-\$).did. | US-PGPUB;<br>USPAT; JPO   | OR | ON | 2009/03/09<br>08:32 |
| S96 | 85498 | (copper cu) with (pd<br>palladium)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>08:32 |

|      |       |  |   |    |    |                     |
|------|-------|--|---|----|----|---------------------|
| S97  | 12    | S95 and S96  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>08:32 |
| S98  | 24972 | electrode with (inorganic<br>perovskite pzt)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>08:32 |
| S99  | 14    | S95 and S98  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>08:32 |
| S100 | 17    | S95 and glass  | US-PGPUB;<br>USPAT; JPO   | OR | ON | 2009/03/09<br>08:32 |
| S101 | 184   | h01l41/047.ipc.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/09<br>08:32 |
| S102 | 2810  | 310/328.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>13:59 |
| S103 | 8628  | (variable varying chang<br>\$3 gradient) with<br>electrode with<br>(proportion<br>concentration) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>15:54 |
| S104 | 16    | S102 and S103  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/03/09<br>15:54 |
| S105 | 196   | (piezo\$ and electrode<br>and (proportion<br>concentration)).clm.                                | US-PGPUB  | OR | ON | 2009/03/09<br>16:08 |
| S106 | 730   | 310/363,364.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:01 |
| S107 | 2048  | 310/365,366.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:01 |

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|------|-------|--|--|----|----|---------------------|
| S108 | 38082 | Ag with Pd                                   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:01 |
| S109 | 184   | (S106 S107) and S108                         | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:01 |
| S110 | 41026 | (ag silver) with glass                       | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |
| S111 | 56    | (S106 S107) and S110                         | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |
| S112 | 518   | diffus\$3 with piezo\$<br>with electrode     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |
| S113 | 26244 | electrode with (inorganic<br>perovskite pzt) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |
| S114 | 730   | 310/363,364.ccls.                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |
| S115 | 2048  | 310/365,366.ccls.                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |
| S116 | 274   | (S114 S115) and S113                         | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |
| S117 | 13093 | electrode with (particle<br>grain) with size | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |

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|------|--------|--|--|----|----|---------------------|
| S118 | 326325 | piezo\$                                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |
| S119 | 659    | S117 and S118                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |
| S120 | 38082  | Ag with Pd                               | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |
| S121 | 118    | S119 and S120                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |
| S122 | 543    | (ag silver) with glass<br>with external  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |
| S123 | 64     | S118 and S122                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |
| S124 | 6282   | (ag silver) with glass<br>with electrode | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |
| S125 | 425    | S118 and S124                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |
| S126 | 191896 | porosity                                 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |
| S127 | 29     | (S114 S115) and S126                     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:02 |

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|------|-------|--|---|----|----|---------------------|
| S128 | 39281 | glass with amorphous   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:03 |
| S129 | 17    | (S114 S115) and S128   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:03 |
| S130 | 31577 | (ag silver) with<br>(proportion<br>concentration)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:03 |
| S131 | 725   | S118 and S130  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:03 |
| S132 | 2629  | (internal external) with<br>electrode with<br>(proportion<br>concentration)                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:03 |
| S133 | 188   | S118 and S132  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:03 |
| S134 | 8956  | (variable varying chang<br>\$3 gradient) with<br>electrode with<br>(proportion<br>concentration) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:03 |
| S135 | 657   | S118 and S134  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:03 |
| S136 | 232   | diffus\$3 with electrode<br>with internal with<br>external                                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:03 |
| S137 | 28    | S118 and S136  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:03 |



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| S138 | 5469  | internal with electrode with (void space porous)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:03 |
| S139 | 329   | S118 and S138  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:03 |
| S140 | 31    | (US-20070273251-\$ or<br>US-20070205700-\$ or<br>US-20020158552-\$ or<br>US-20020089266-\$ or<br>US-20020053860-\$ or<br>US-20020043901-\$ or<br>US-20010026114-\$ or<br>US-20020017832-\$ or<br>US-20020084723-\$ or<br>US-20040021399-\$ or<br>US-20040178703-\$ or<br>US-20030141786-\$ or<br>US-20040050477-\$ or<br>US-20030080651-\$ or<br>US-20010043454-\$ or<br>US-20030230374-\$ or<br>US-20020046861-\$ or<br>US-20060232172-\$ or<br>US-20020084872-\$ or<br>US-20010054859-\$).did.<br>or (US-6798123-\$ or US-<br>6731050-\$ or US-<br>6522052-\$ or US-<br>6208026-\$ or US-<br>5459371-\$ or US-<br>4845399-\$ or US-<br>7345403-\$ or US-<br>6765337-\$ or US-<br>6414417-\$ or US-<br>5254212-\$ or US-<br>6756720-\$ or US-<br>6734607-\$ or US-<br>7009328-\$ or US-<br>6943482-\$ or US-<br>6700306-\$).did. or (JP-<br>2004103621-\$).did. | US-PGPUB;<br>USPAT; JPO   | OR | ON | 2009/08/11<br>08:03 |
| S141 | 89710 | (copper cu) with (pd palladium)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:03 |

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| S142 | 11    | S140 and S141  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:03 |
| S143 | 26244 | electrode with (inorganic<br>perovskite pzt)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:04 |
| S144 | 13    | S140 and S143  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:04 |
| S145 | 16    | S140 and glass   | US-PGPUB;<br>USPAT; JPO   | OR | ON | 2009/08/11<br>08:04 |
| S146 | 243   | h01l41/047.ipc.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>08:04 |
| S147 | 2889  | 310/328.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:04 |
| S148 | 8956  | (variable varying chang<br>\$3 gradient) with<br>electrode with<br>(proportion<br>concentration) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:04 |
| S149 | 16    | S147 and S148  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2009/08/11<br>08:04 |
| S150 | 209   | (piezo\$ and electrode<br>and (proportion<br>concentration)).clm.                                | US-PGPUB  | OR | ON | 2009/08/11<br>08:04 |
| S151 | 464   | ((okamura near2<br>takeshi) (sakaue near2<br>katsushi) (nakamura<br>near2 shigenobu)).in.        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>09:12 |

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| S152 | 82 | S151 and piezo\$ | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/11<br>09:12 |
|------|----|------------------|---|----|----|---------------------|

**EAST Search History (I nterference)**

| Ref # | Hits | Search Query  | DBs                         | Default<br>Operator | Plurals | Time Stamp       |
|-------|------|---|-----------------------------|---------------------|---------|------------------|
| S153  | 419  | (piezo\$ and electrode and<br>(proportion<br>concentration)).clm. | US-PGPUB;<br>USPAT;<br>UPAD | OR                  | ON      | 2009/08/11 09:02 |

**8/ 11/ 2009 11:07:02 AM****C:\ Documents and Settings\ drosenau\ My Documents\ EAST\ Workspaces\ 10573331.wsp**